Paulo Costa

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1 Professional Experience

- Iperlane, Senior Software Architect since October/2016
 Development of software containers for Android Apps.
- Geofusion, Software Engineer April/2015 to October/2016

Development of the Java backend and Web frontend of Onmaps, a tool for analisys and visualization of geospatial data, used mostly as marketing tool (Geomarketing).

• Facebook, Software Engineer - October/2012 to September/2014

I've worked on the project responsible for managing all of Facebook's servers and other datacenter devices, and which acts as an intermediary between several automation tools, such as: Provisioning, application deployment, repairs, financial systems, data replication, monitoring, etc.

This project is written in Java and communicates with other applications through Thrift APIs. I also contributed with several client applications, usually written in Python, PHP or C++.

Veridis Tecnologia, Software Engineer - September/2009 to October/2012

Veridis develops solutions for biometric access control (Fingerprints in special). I was responsible for developing the library for capture and matching Fingerprints (Based on NBIS) and the firmware for a embedded system that controls biometric doors and turnstiles.

Most Development was done in C++, but all libraries have APIs and samples in Java and C#.

• Griaule Biometrics, Software Engineer - May/2006 to September/2009

Griaule sells a software library for capture and matching of fingerprints. I was responsible with supporting several fingerprint scanners, Linux support, modularization and other improvements.

Most development was done in C++, but there are bindings and examples for Java, Delphi, C# and VB.

CPqD - Research and Development Center in Telecomunications, Intern - December/2005 to February/2006

As an intern, my job consisted in fixing known bugs, writing JUnit tests and add new features to existing reusable components.

All components are written in Java and tipically use Hibernate, EJB e Struts.

2 Education

• Computer Engineering - IC/Unicamp - March/2006 to December/2010.

Study Certificates:

- Visual Computing
- Project of Dedicated Hardware Systems
- Software Engineering
- Project of Information Systems

Grade Point Average: 7.7 (0-10)

- Technician in Eletronics Cotuca/Unicamp February/2007 to December/2010
- Technician in Informatics Cotuca/Unicamp February/2003 to December/2006
 Emphasis in Support Systems

3 Languages

- English Advanced Level.
 109/120 points on TOEFL iBT (November/2008).
- Portuguese Native Speaker.

4 A few Projects

- MongoFS FUSE filesystem to manage documents in Mongo databases.
- Contour Curves for Highcharts Plugin to the popular Highcharts library to plot 2-D and 3-D contour curves.
- Experimental Design Web interface to easily plan and analyze experiments using DOE methodologies. Made with Python/webapp2 and javascript.
- **charlcd-gpio** e **ttyWiegand** Linux kernel modules for driving HD44780-compatible character LCDs and to receive data from Wiegand deviced through GPIO pins.
- **JIPS** Java Virtual Machine, able to run any class file. Has partial support for JNI, no Garbage collection. Made with C++/Arch-C.
- Space Wars StarWars-like 3-D space battle game.
 Made with Java, OpenGL, OpenAL and JInput.
- Mini-MIPS MIPS-like multi-cycle microprocessador. Implemented from behavioral VHDL to physical layout.

Made with GHDL, Cadence Encounter and Cadence Virtuoso.

- Rabiscomatic Plotter assembled from old printers and a ARM microcontroller.
- Firmware and computer software written in C. USB interface.

 Calculatrix Plots math functions in in 2 or 3 dimensions.

Made with Java and OpenGL.

• **3D Wohoo** - Libraries for drawing 2-D and 3-D computer graphics, built from the scratch. Versions for Turbo Pascal, Delphi and Java.

5 Programming Contests

- ICPC International Collegiate Programming Contest World Finals
 - 2008 Honorable mention Team GAP/Unicamp
- ICPC International Collegiate Programming Contest Brazilian Finals
 - 2007 (4th position Team GAP/Unicamp), 2010 (8th position Team Unicamp Alfa)
- IOI International Olympiads in Informatics
 - 2006 122nd position (Bronze)
- CIIC Ibero-american Contest in Informatics)
 - 2004 (Silver), 2006 (Silver)
- OBI Brazilian Olympiads in Informatics
 - 2003 (Silver), 2004 (Golden), 2005 (Bronze), 2006 (Golden)
 - 2010 and 2011 Worked on the programming courses.
- Google Code Jam Latin America
 - $-2007 80^{th}$ position